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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/718,827	11/21/2003	Roman J. Hamerski	12263-16	1334	
27526 7	7590 01/26/2006		EXAMINER		
BLACKWEL	L SANDERS PEPER	ROSE, KIESHA L			
4801 Main Street Suite 1000			ART UNIT	PAPER NUMBER	
	Y, MO 64112		2822	····	

DATE MAILED: 01/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

				<u> </u>
		Application No.	Applicant(s)	
		10/718,827	HAMERSKI ET AL.	•
	Office Action Summary	Examiner	Art Unit	
		Kiesha L. Rose	2822	•
	The MAILING DATE of this communication app	ears on the cover sheet with	the correspondence address	
Period fo	• •	(10.057.70.5\\D\D5.440\		^
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS IN THE MAIL	ATE OF THIS COMMUNICA 36(a). In no event, however, may a repl rill apply and will expire SIX (6) MONTH cause the application to become ABAN	ATION. y be timely filed IS from the mailing date of this communication IDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 14 O	<u>ctober 2005</u> .		
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.		
3)	Since this application is in condition for allowar	nce except for formal matter	s, prosecution as to the merits	is
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 1	11, 453 O.G. 213.	
Disposit	ion of Claims			
· _	Claim(s) 1-10 and 21-26 is/are pending in the a	application		
	4a) Of the above claim(s) is/are withdraw			
	Claim(s) is/are allowed.		•	
6)⊠	Claim(s) <u>1-8,10 and 21-26</u> is/are rejected.			
7)🖂	Claim(s) 9 is/are objected to.			
8)[Claim(s) are subject to restriction and/or	election requirement.		
Applicati	ion Papers			
	The specification is objected to by the Examine	-		
•	The drawing(s) filed on is/are: a) acce		the Examiner	
.0,	Applicant may not request that any objection to the			:
	Replacement drawing sheet(s) including the correcti			(d).
11)[The oath or declaration is objected to by the Ex	aminer. Note the attached C	Office Action or form PTO-152.	
Priority (ınder 35 U.S.C. § 119			
•	•	and out to consider AFILO O. C.A.		
	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 1	19(a)-(u) or (1).	
a)	1.☐ Certified copies of the priority documents	s have been received	•	
	Certified copies of the priority documents		lication No.	
	3. Copies of the certified copies of the prior	• • •		•
	application from the International Bureau		•	
* 5	See the attached detailed Office action for a list	of the certified copies not re	ceived.	
				a
				•
Attachmen	t(s)			
	e of References Cited (PTO-892)	4) Interview Sun	nmary (PTO-413)	
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/N	Mail Date	
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	6) Other:	rmal Patent Application (PTO-152)	

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DETAILED ACTION

This Office Action is in response to the amendment filed 14 October 2005.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8,10 and 21-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujihira (DE 19824514).

Fujihira discloses a diode (Fig. 19) that contains a first layer (1) of semiconductor material of a first layer conductivity type with first and second sides where the first layer is formed of arsenic, a second layer (2) of semiconductor material of a second conductivity type having first and second sides with the first side of the first layer adjacent the second side of the second side, a single current localization region (18) positioned in the first layer of semiconductor material and in the second layer and adjacent to the first side of the first layer and extending beyond the first side of the first layer into the second layer, the first and second conductivity are the same conductivity N, the second layer varies in width, such that a central portion of the second layer is thinner than sides of the second layer

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A third layer (3) of semiconductor material of a third conductivity type having first and second sides where the first side is adjacent the second side of the second layer, wherein the distance in a central portion of the device from the current localization region to the third layer is less than a distance from the first layer to the third layer at the edge of the device.

The current localization region dopant diffuses faster than the first dopant layer since the first dopant layer is arsenic and the current localization layer is phosphorus and the first dopant layer can also be phosphorus

Allowable Subject Matter

Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claims 1-10 and 21-26 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiesha L. Rose whose telephone number is 571-272-1844. The examiner can normally be reached on T-F 8:30-6:00 off Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KLR

Supervisory Patent Examiner

23, Jan-2006